

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P574158

Luminaire Tested: **FLD6C-05-D010 FEU6C-X-90-27 F6X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P574158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-05-D010 FEU6C-X-90-27 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

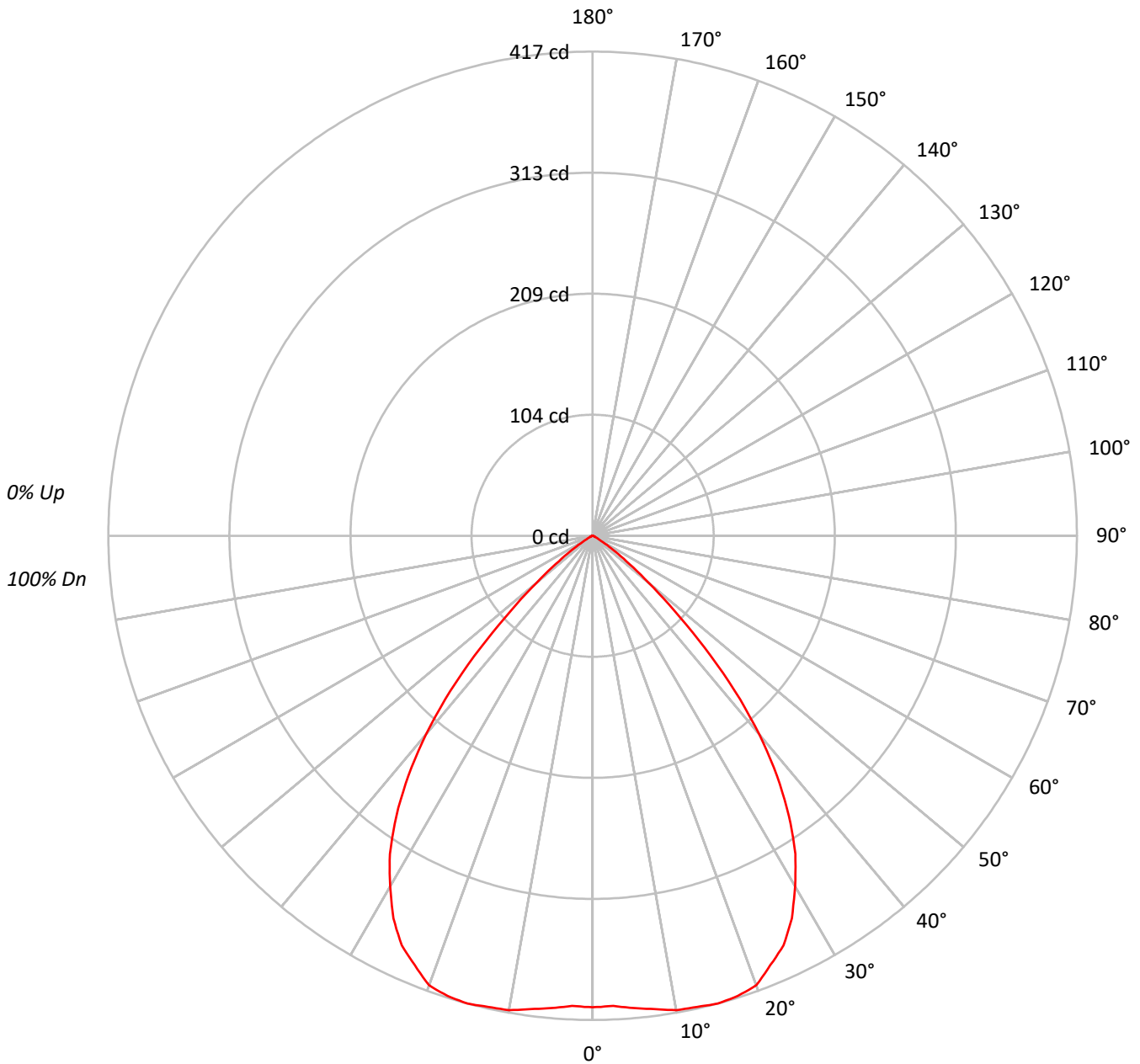
Lumens per Lamp: N/A  
Luminaire Lumens: 650.0 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83	83	83	83
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76	76	76	76
4	93	85	78	74	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57	57	57	57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52	52	52	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48	48	48	48
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44	44	44	44
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41	41	41	41

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	22262
5°	22469
10°	23096
15°	23672
20°	24035
25°	23536
30°	22067
35°	19729
40°	15980
45°	10567
50°	5339
55°	2256
60°	724
65°	285
70°	240
75°	148
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.2	6.0
10°-20°	117.7	18.1
20°-30°	177.5	27.3
30°-40°	181.7	28.0
40°-50°	105.8	16.3
50°-60°	24.3	3.7
60°-70°	3.0	0.5
70°-80°	0.8	0.1
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	334.4	51.5
0°-40°	516.1	79.4
0°-60°	646.2	99.4
0°-90°	650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	650.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	406	
5°	408	39
15°	417	118
25°	389	177
35°	295	182
45°	136	106
55°	24	24
65°	2	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	406.1
2.5°	405.3
5°	408.3
7.5°	411.2
10°	414.9
12.5°	415.6
15°	417.1
17.5°	415.6
20°	412.0
22.5°	400.2
25°	389.1
27.5°	371.4
30°	348.6
32.5°	325.0
35°	294.8
37.5°	260.9
40°	223.3
42.5°	181.3
45°	136.3
47.5°	95.1
50°	62.6
52.5°	39.8
55°	23.6
57.5°	12.5
60°	6.6
62.5°	3.7
65°	2.2
67.5°	2.2
70°	1.5
72.5°	0.7
75°	0.7
77.5°	0.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)